

FIGURE 1

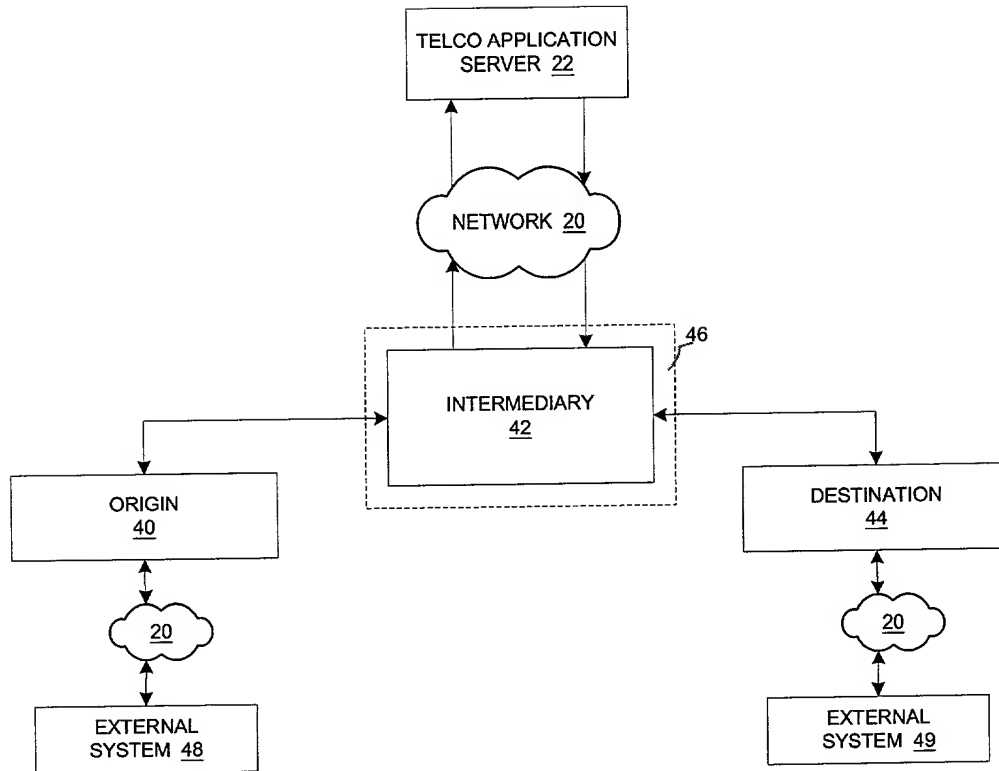


FIGURE 2

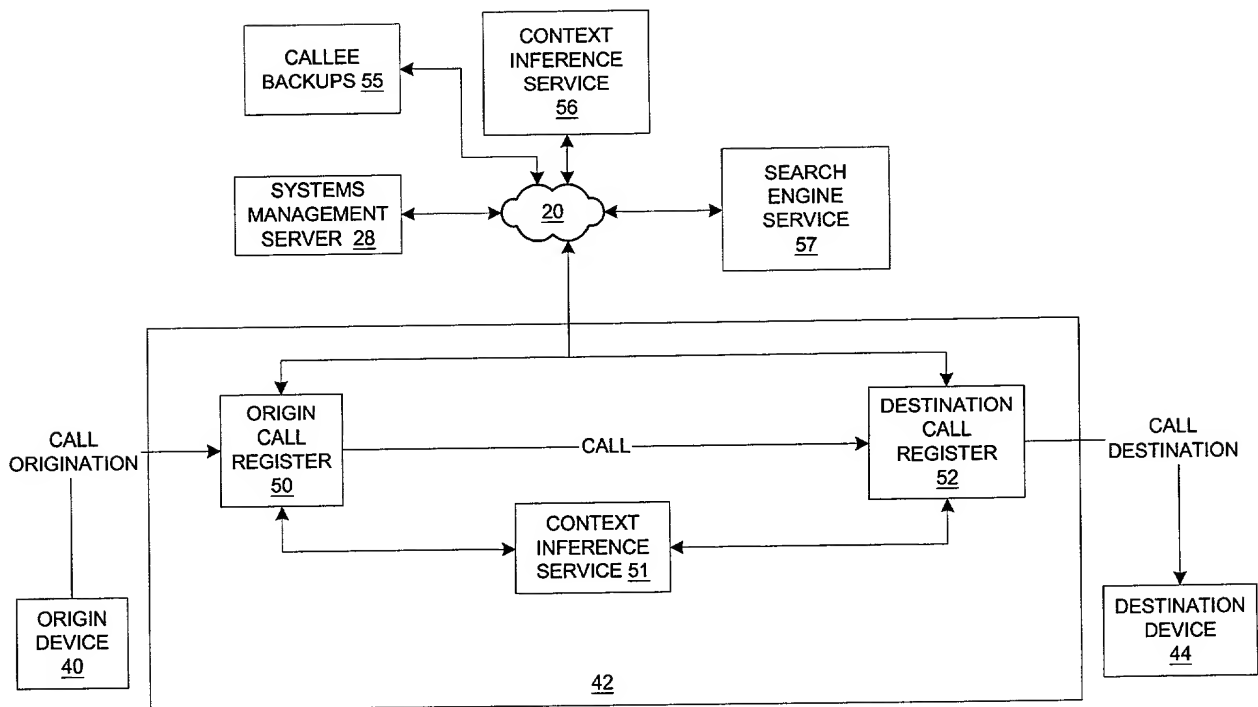


FIGURE 3

AUTHENTICATED CALLER IDENTITY 60
VID NAME : JANE SMITH VID ID: 333-00-2222 VID POSITION : TEACHER

CALLER DEVICE IDENTITY 62
DEVICE NAME : BUSINESS PHONE DEVICE NUMBER : 512-222-3333 DEVICE TYPE : WIRELINE

CALL ORIGATION LOCATION 64
PSTN OFFICE SWITCH : 512-222 COUNTRY : US STATE : TEXAS CITY : AUSTIN BUILDING: HOUSE

INTENDED CALLEE 69
RVID : JON DOE RVID POSITION: PARENT

SUBJECT 65
SUBJECT : SALLY SUE, CHILD

INTENDED CALLEE BACKUP PROFILE 54
GENERAL: BACKUP #1 : MESSAGING SERVICE BACKUP #2 : DEVICE C BACKUP #2 : INSTANT MESSAGING SERVICE SUBJECT: CHILDREN BACKUP #1 : SUSAN DOE, PARENT BACKUP #2 : JANE SMITH, GUARDIAN BACKUP #3: MESSAGING SERVICE SUBJECT : BUSINESS PROJECT A BACKUP #1 : CARL KICK BACKUP #2 : JENNY SAND BACKUP #3 : OPERATOR TIME : 5PM-6PM BACKUP #1 : MESSAGING SERVICE

CONTEXT INFERENCE SERVICE 56

FILTERED CONTEXT TO INTENDED CALLEE 66
[CALLER NAME] JANE SMITH [CALLER POSITION] TEACHER [DEVICE NAME] BUSINESS PHONE [SUBJECT] SALLY SUE

BACKUP CONTEXT TO SERVICE PROVIDER FOR FORWARDING 61
[INTENDED CALLEE] JON DOE [BACKUP #1] SUSAN DOE, PARENT [BACKUP #2] JANE SMITH, GUARDIAN [BACKUP #3] MESSAGING SERVICE

AUTHENTICATED BACKUP CALLEE IDENTITY 70
RVID NAME :SUSAN DOE RVID ID: 111-00-1111 RVID POSITION : PARENT

FILTERED CONTEXT TO CALLER 63
[BACKUP CALLEE NAME] SUSAN DOE [BACKUP CALLEE POSITION] PARENT [TRANSFERRED] BACKUP FOR CHILDREN CALLS FOR JON DOE

FIGURE 4

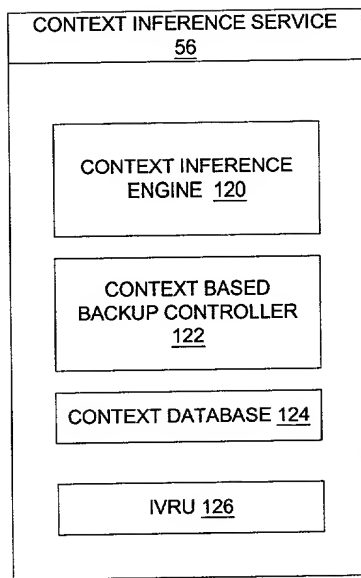


FIGURE 5

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sequenceDiagram
    participant OT as ORIGIN TEL
    participant CO as ORIGIN CENTRAL OFFICE
    participant SANN as SCP AND/OR EXTERNAL NETWORK
    participant IPAS as IP AND/OR TELCO APP SERVER

    OT->>CO: OFF-HOOK
    CO->>SANN: LINE SUBSCRIBER PROFILE REQ
    SANN-->>CO: SUBSCRIBER PROFILE
    CO->>CO: LOAD PROFILE
    CO->>IPAS: CALLER AUTHENTICATION SERVICE REQUEST
    IPAS-->>CO: VID
    CO->>IPAS: CALL CONTEXT REQUEST
    IPAS-->>CO: CALL CONTEXT WITH BACKUPS
    CO->>CO: LOAD CONTEXT
    CO->>CO: FILTER CONTEXT
    CO->>CO: DETERMINE DESTINATION SERVICE PROVIDER
    CO->>SANN: TRANSFER CALL TO DESTINATION SERVICE PROVIDER WITH FILTERED CONTEXT
    SANN->>CCO as INTENDED CALLEE DESTINATION CENTRAL OFFICE
    CCO->>SANN: LINE SUBSCRIBER PROFILE REQ
    SANN-->>CCO: SUBSCRIBER PROFILE
    CCO->>CCO: LOAD PROFILE
    CCO->>CCO: RING SIGNAL
    CCO-->>CCO: UNAVAILABLE
    CCO->>CCO: DETERMINE BACKUP CALLEE SERVICE PROVIDER
    CCO->>SANN: TRANSFER CALL TO BACKUP SERVICE PROVIDER WITH FILTERED CONTEXT
    SANN->>BCO as BACKUP CALLEE DESTINATION CENTRAL OFFICE
    BCO->>SANN: CALLEE AUTHENTICATION SERVICE REQUEST
    SANN-->>BCO: RVID
    BCO->>SANN: CALL CONTEXT REQUEST
    SANN-->>BCO: FILTERED CALL CONTEXT
    BCO->>BCO: TRANSFER FILTERED CALL CONTEXT TO CALLEE
    BCO->>CCO: RING SIGNAL
    CCO-->>BCO: AVAILABLE
    BCO->>OT: TRANSFER FILTERED CALL CONTEXT TO CALLER
    OT->>OT: PROCESS CALL

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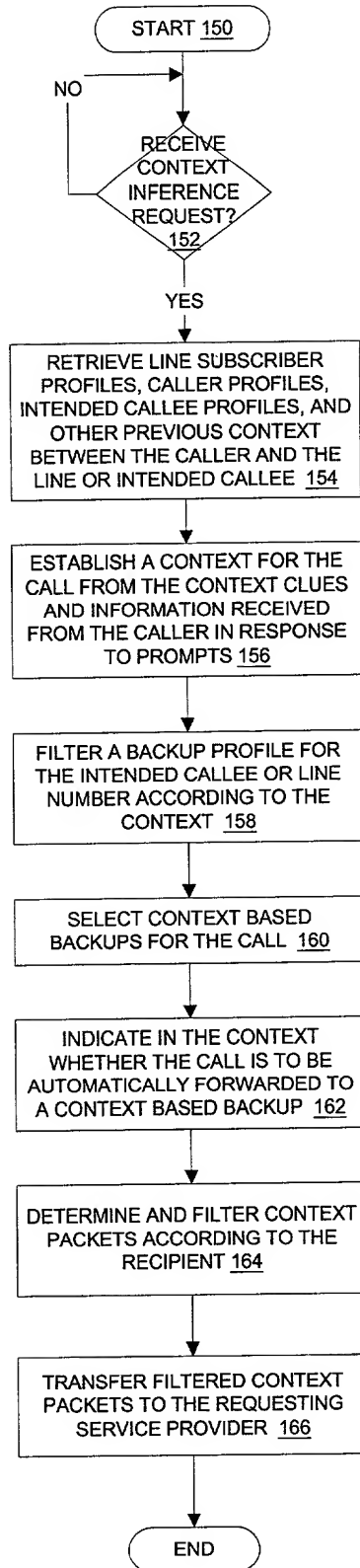


FIGURE 7